

Water Innovation Summit Water Reuse - Now and the Future -

Presented by:

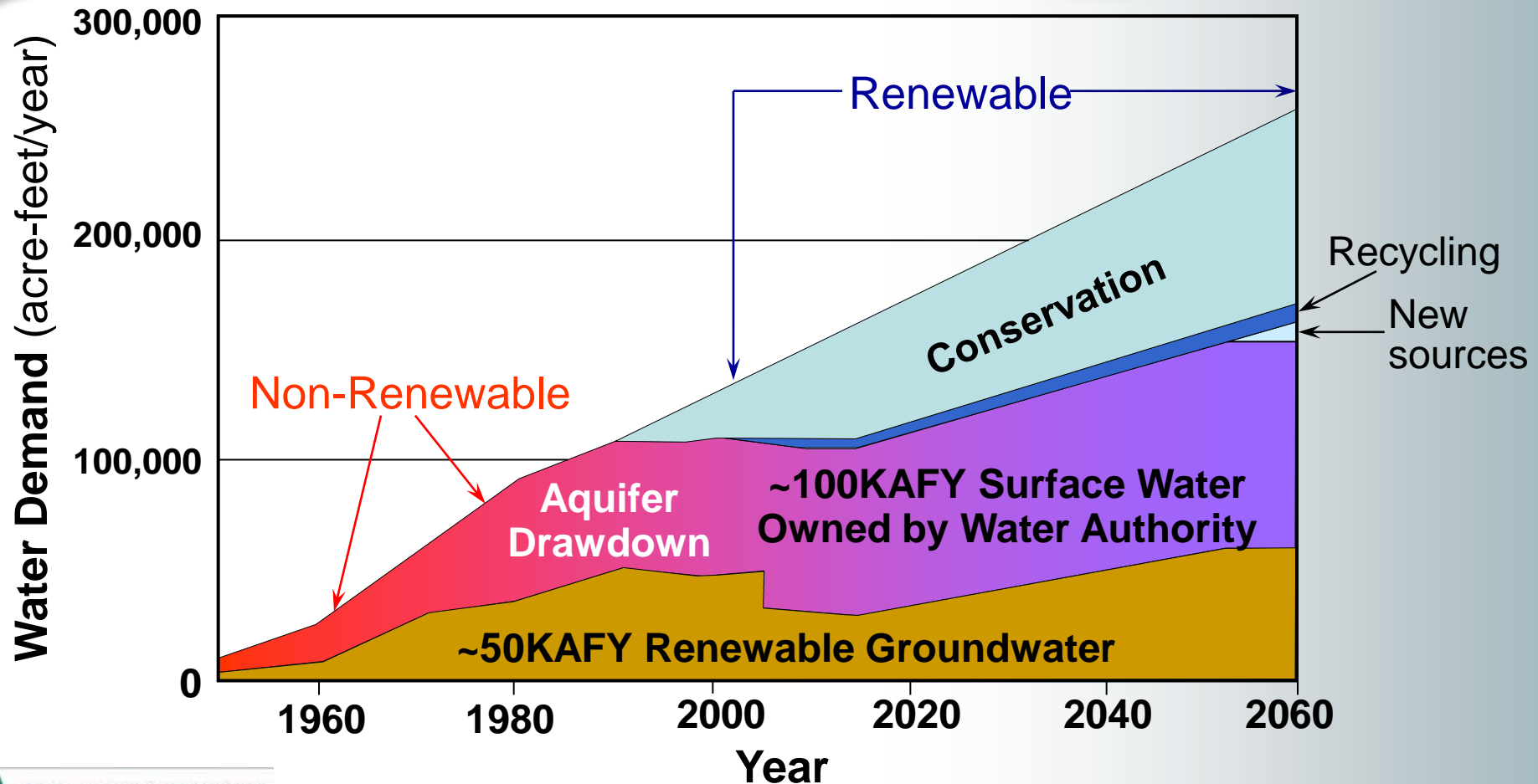
John M. Stomp III, PE,
Chief Operating Officer
Albuquerque Bernalillo County Water Utility Authority

October 2014

2007 Water Resource Management Strategy

- Consideration of sustainability elements continues in evaluation of future water supply options
 - *Continuing to encourage conservation as a primary means to extend supply*
 - *Drought Management Plan focuses on reducing demand during drought*
 - *Examining the effect of climate variability on surface flows and demand*
 - *Implementing and evaluating reuse projects to more efficiently use our existing resources*
 - *Implementing ASR in part to reduce evaporative losses of stored water*
 - *Master Planning in a Triple Bottom Line framework*

Water Authority's Water Resource Management Strategy includes:



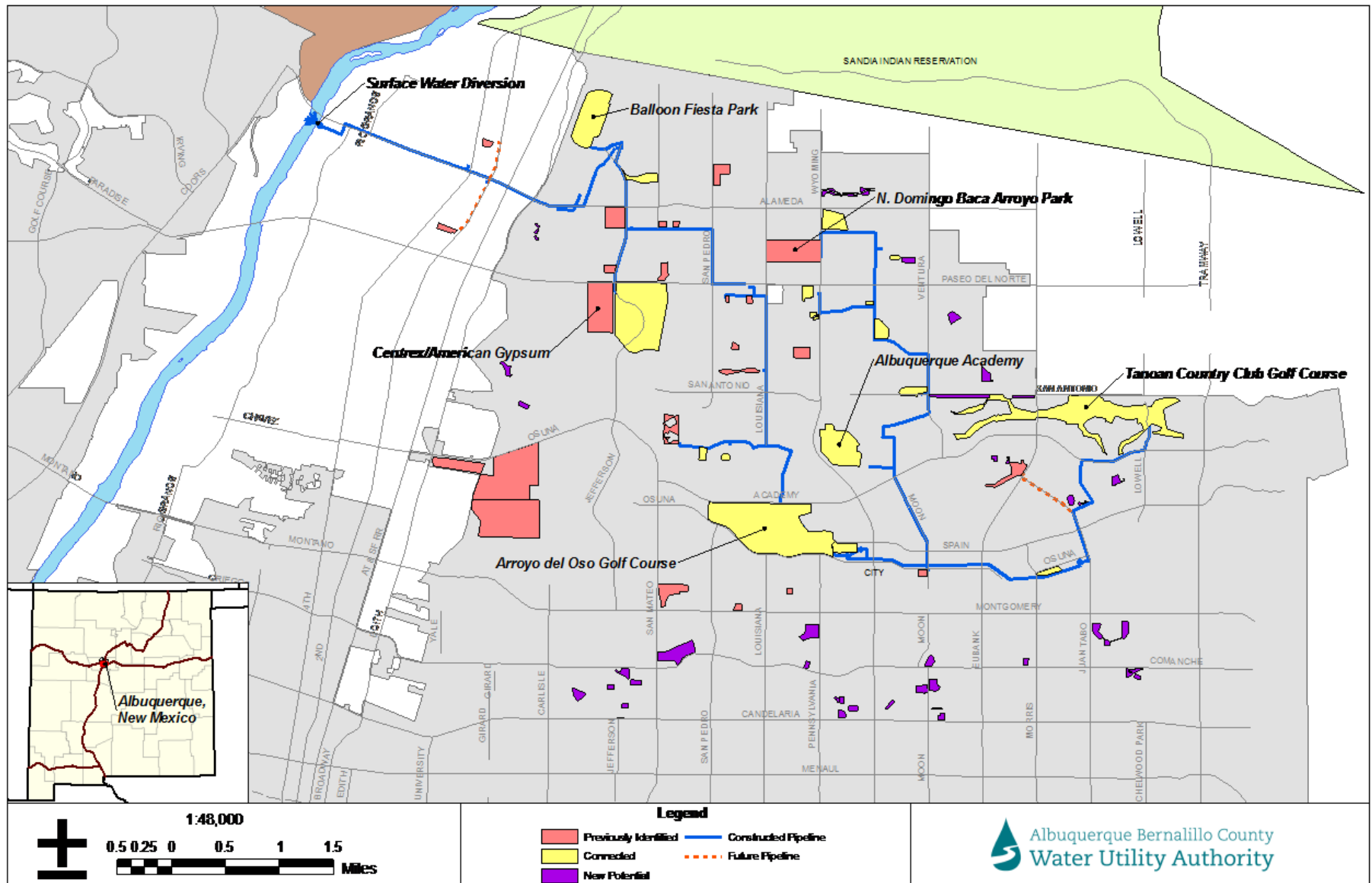
Sources of Non-Potable Supply for Reuse

- Reuse/raw water sources
 - *Industrial wastewater – chip rinsing water*
 - *Surface water - San Juan-Chama*
 - *Municipal wastewater*
 - *Contaminated groundwater*
 - *Storm water*
 - *Cooling tower water*
 - *Municipal well wash water – Montgomery Park*

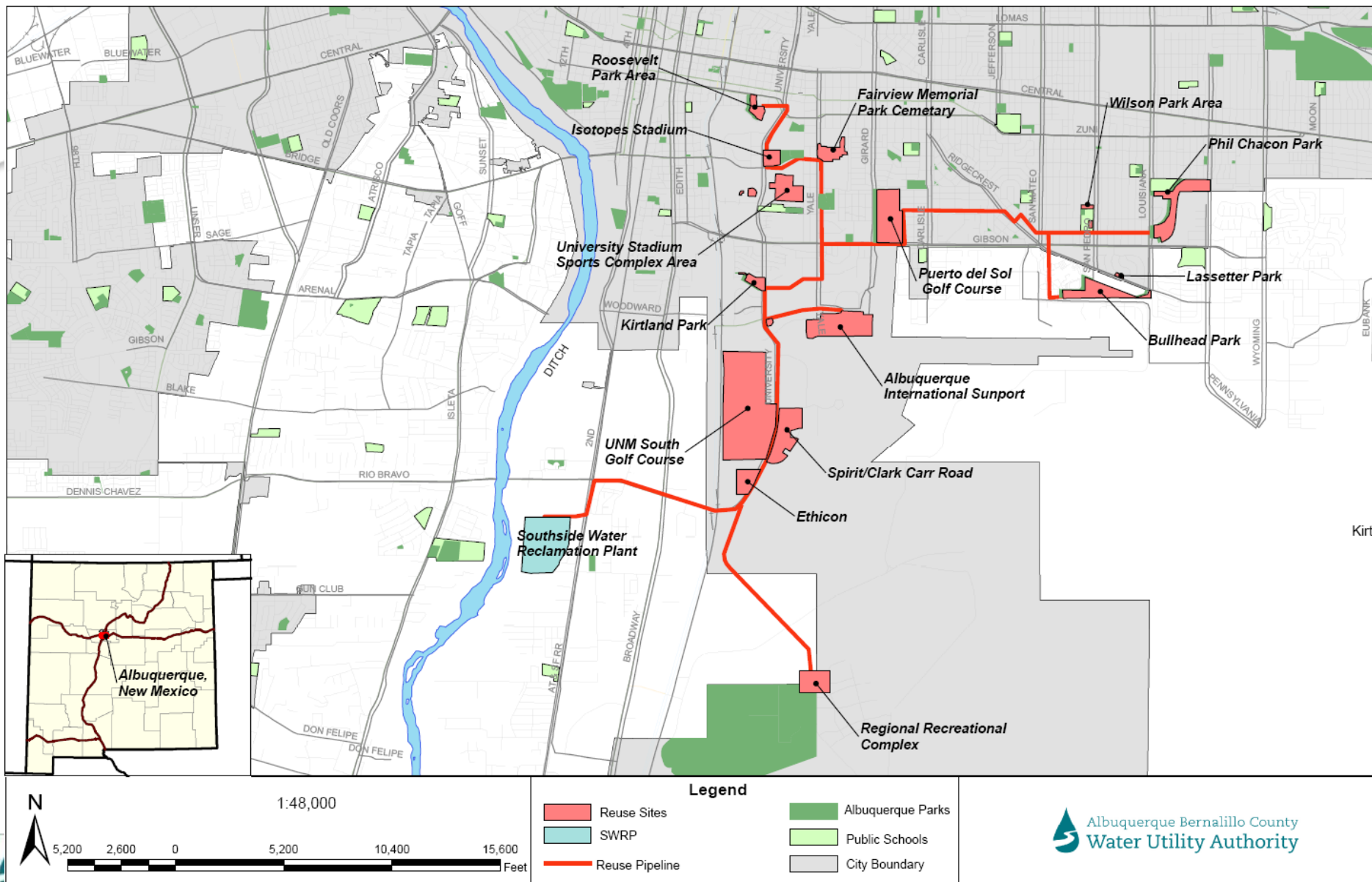
Current Reuse Projects in Operation or Planning

- *Industrial wastewater recycling – 1,000 AFPY*
- *North I-25 Non-potable Surface Water Project – non-potable San Juan-Chama surface water – 3,000 AFPY*
- *Southside effluent reuse – municipal and industrial effluent – 2,400 AFPY*
- *Westside Reuse Project – feasibility study complete and land purchased*

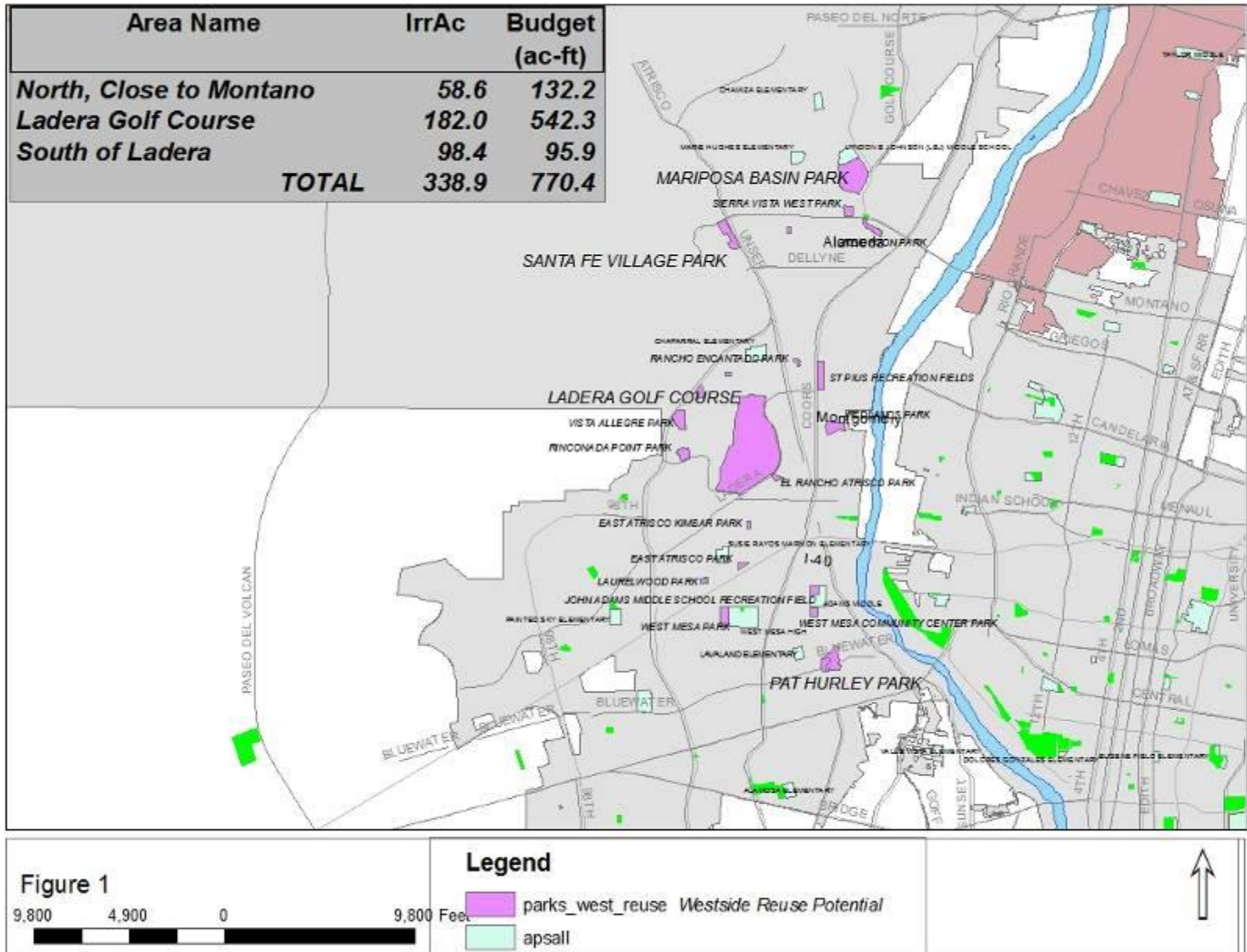
North I-25 Reuse Project



Southside Reuse Project

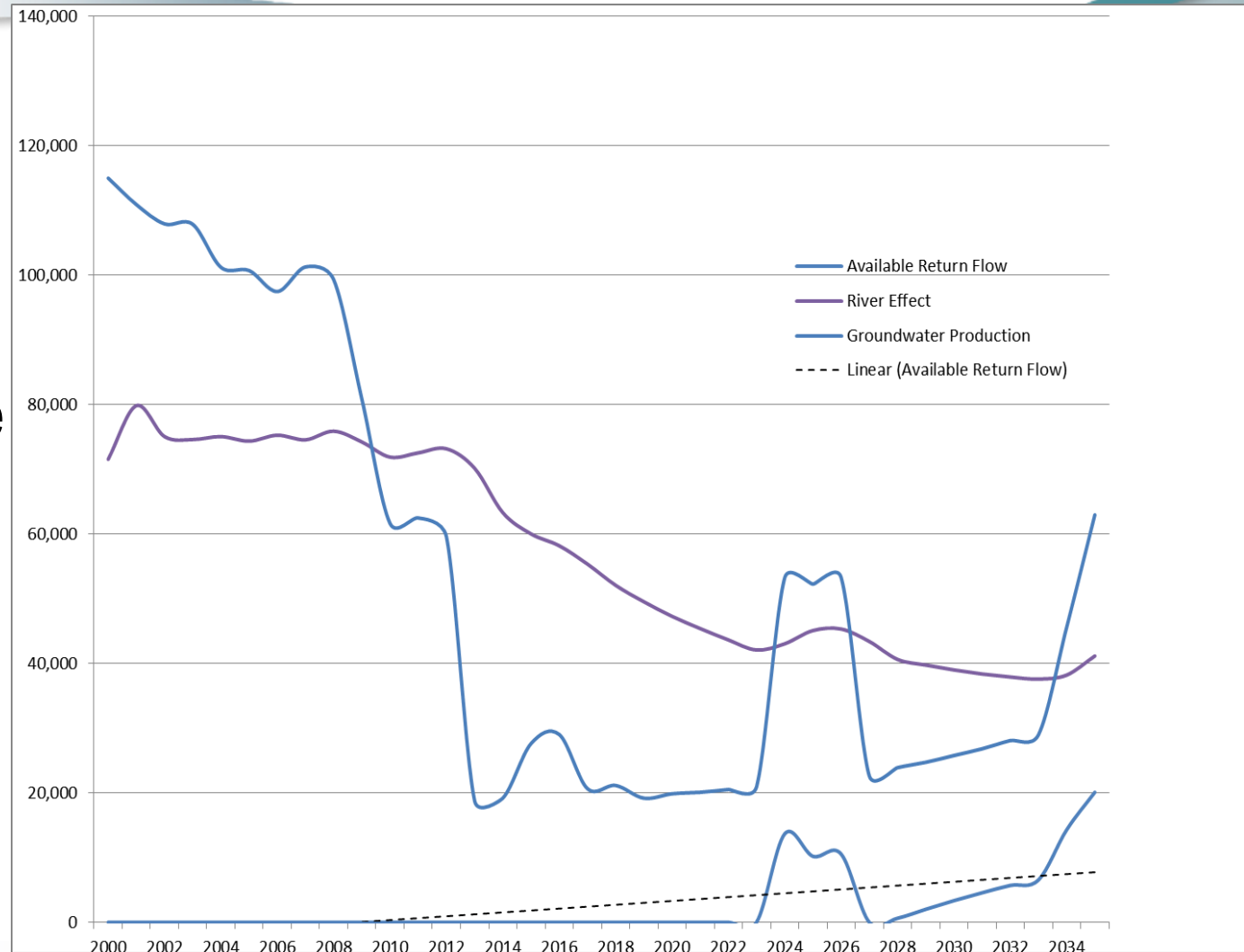


Future Westside Reuse Project



Future Reduced Depletions and Available Return Flows

- More return flow is expected to be available in the future for other uses

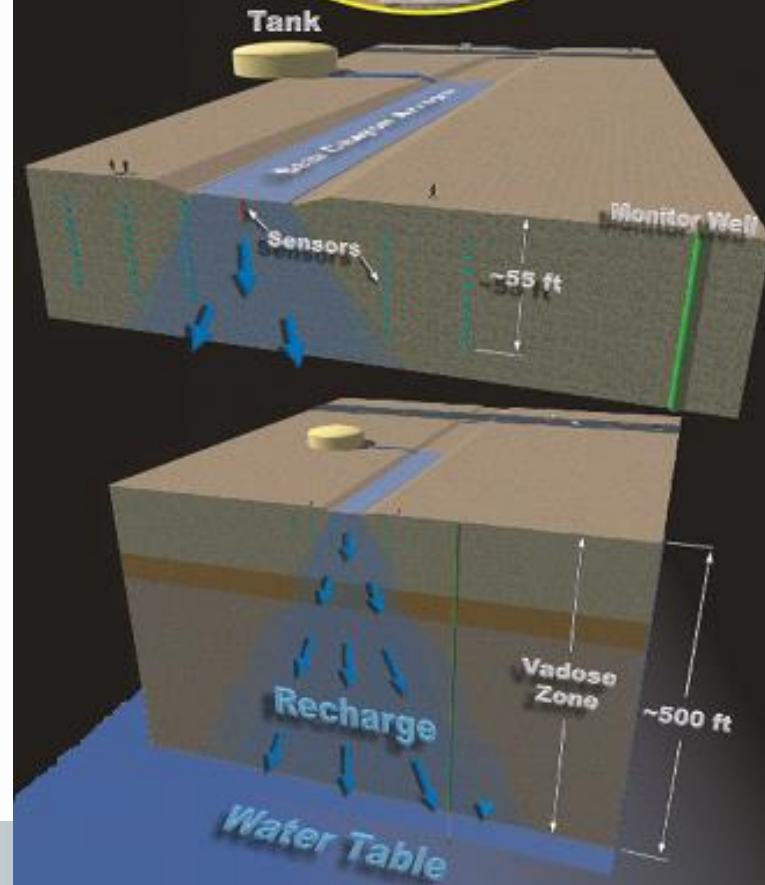


Future Reuse Opportunities

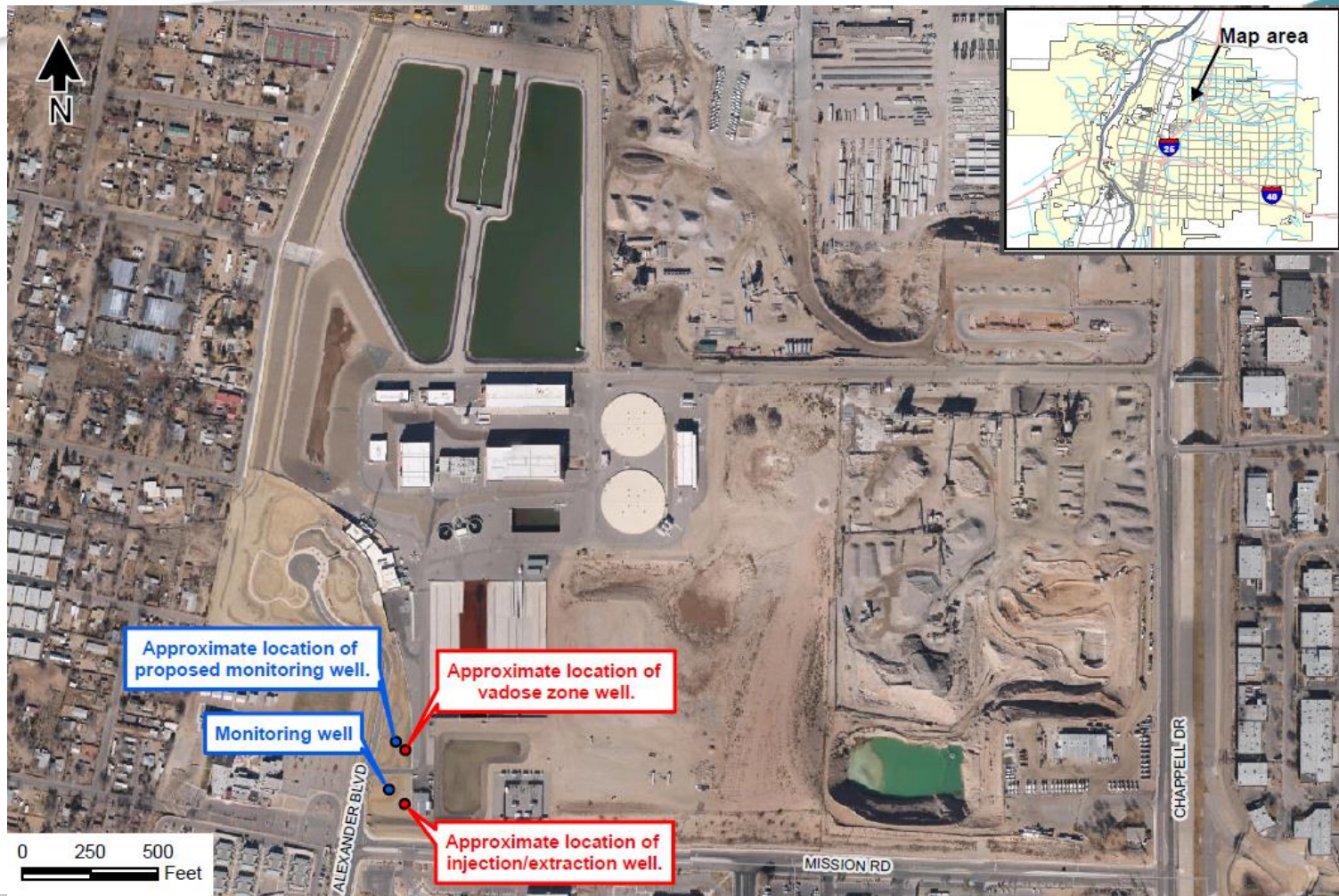
- **Large Scale ASR Program – new projects with municipal effluent**
 - *Infiltration*
 - *Direct injection*
- **Direct or Indirect Potable Reuse – storage for drinking supplies**
 - *Many of these projects moving forward – Cloudcroft, NM*
 - *Some currently in operation – Texas*

Bear Canyon ASR

- 1,000 ac-ft successfully stored over two years – land application project
- Requesting permit for up to 3,000 ac-ft/yr for permanent operation
- Ranney Collector on Rio Grande at Alameda



Large Scale ASR – Water Treatment Plant



Water Reuse Challenges

- Permitting – potable or non-potable systems
- Operation of multiple water systems
 - *Potable – surface and ground water*
 - *Non-potable – North I-25, Southside and Industrial*
- Funding – Permitting, Design and Construction

Water Reuse Assistance

- State Assistance

- *Provide pathway for permitting projects – NMED and OSE*
- *Funding for water reuse projects*

- Federal Assistance

- *Reauthorize the Title XVI Program – funding for projects*
- *New Authorization for Water Authority – fully complete 1995 authorization*

Questions?

